

Possible Performance Measures for Transportation/Land Use Coordination

A survey of states: May 16, 2007

This is the summary version.

Detailed version available.

How We Identified PMs

- ❑ Contacted 11 states and 3 MPOs
- ❑ Reviewed agency literature
- ❑ Asked in person: “What performance measures do you use to assess land use and transportation coordination?”

Quick Summary

- ❑ **Typical response:** We don't measure transport/land use coordination
- ❑ **Typical interpretation:** We may collect related PMs depending on the goal of such coordination
- ❑ **My concern:** Is the PM current?

Diverse Goals



- ☐ Improve transportation options
- ☐ Protect or manage corridors
- ☐ Align state and local efforts
- ☐ Reduce land consumption

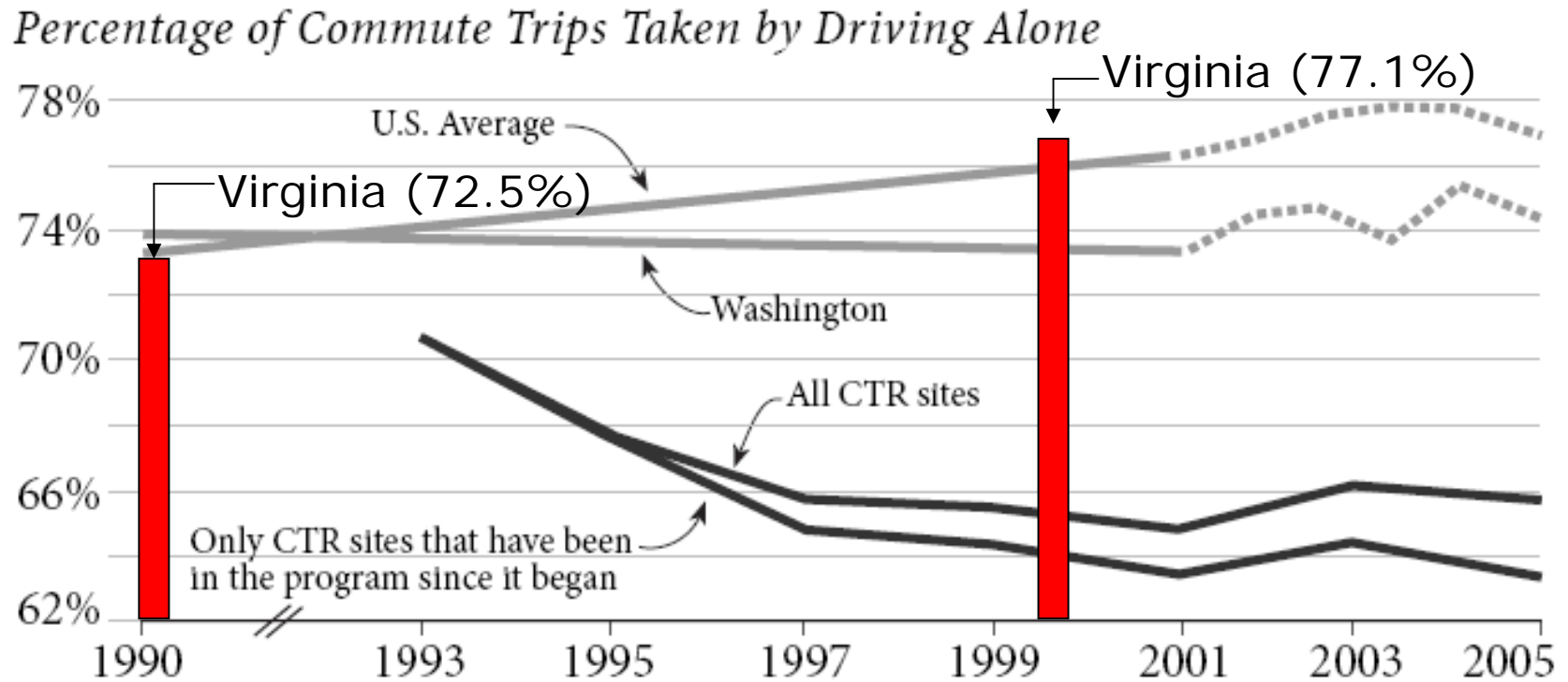
Measure
modes

Don't
measure
modes

Goal: Improve Transportation Options (*measure mode use*)

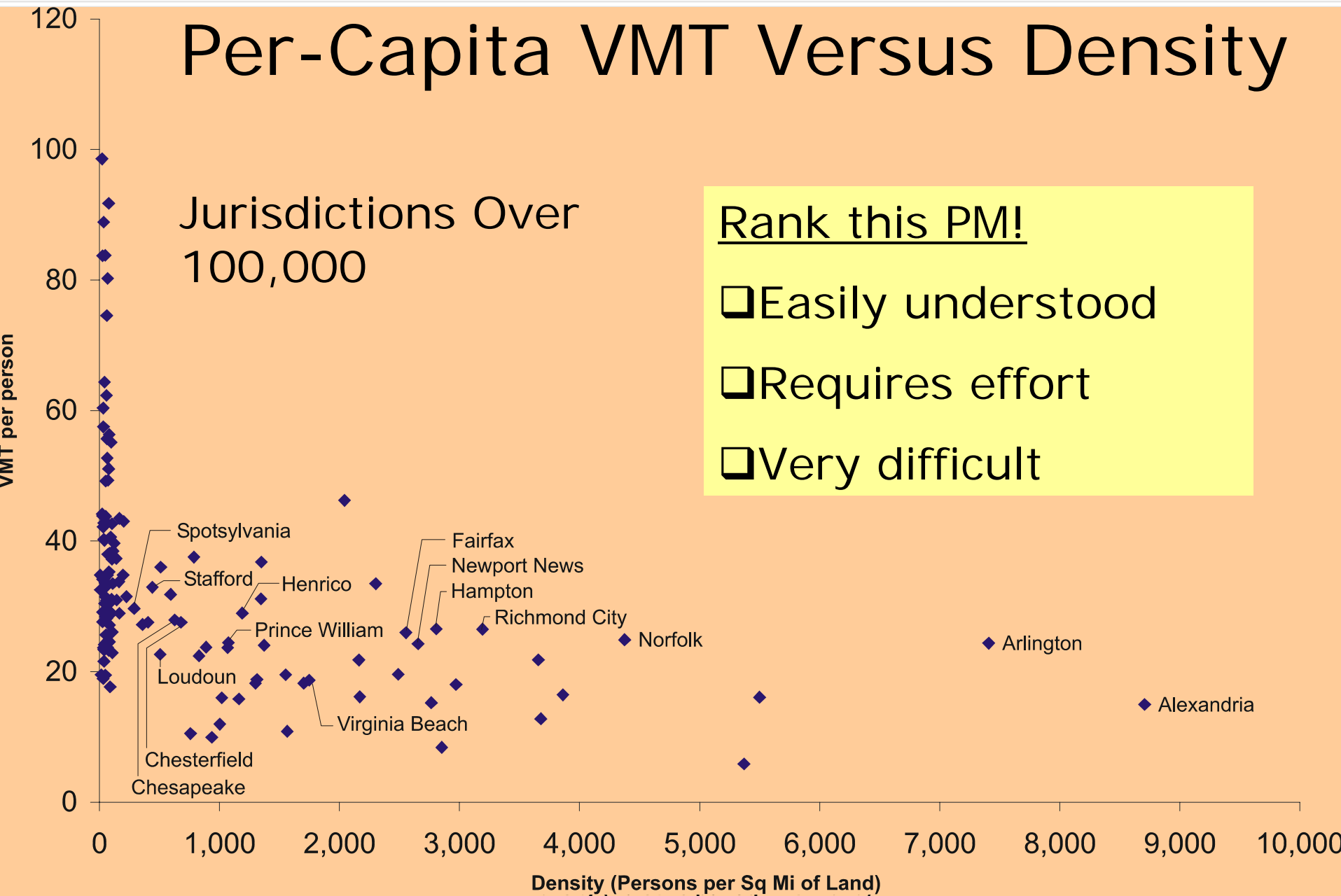
- ❑ Found 6 PMs, 2 of which are
- ❑ Commuter trips by auto
- ❑ Vehicle Miles Traveled (VMT)

Commute Trips by Auto (WA)



Source: *Measures, Markers and Mileposts*, The Gray Notebook, Washington State Department of Transportation, Number 23, page 78, <http://www.wsdot.wa.gov/accountability/Archives/GrayNotebookSep-06.pdf#page=69>

Per-Capita VMT Versus Density



Goal: Improve Transportation Options (*don't measure mode use*)

- ❑ Found 7 PMs, 4 of which are
- ❑ Auto Dependence Index
- ❑ Quality of travel choices
- ❑ Growth where transport options exist
- ❑ Jobs/Housing Balance

Auto Dependence Index (OR) (Proposed)

Average Cost of Non-Auto Travel

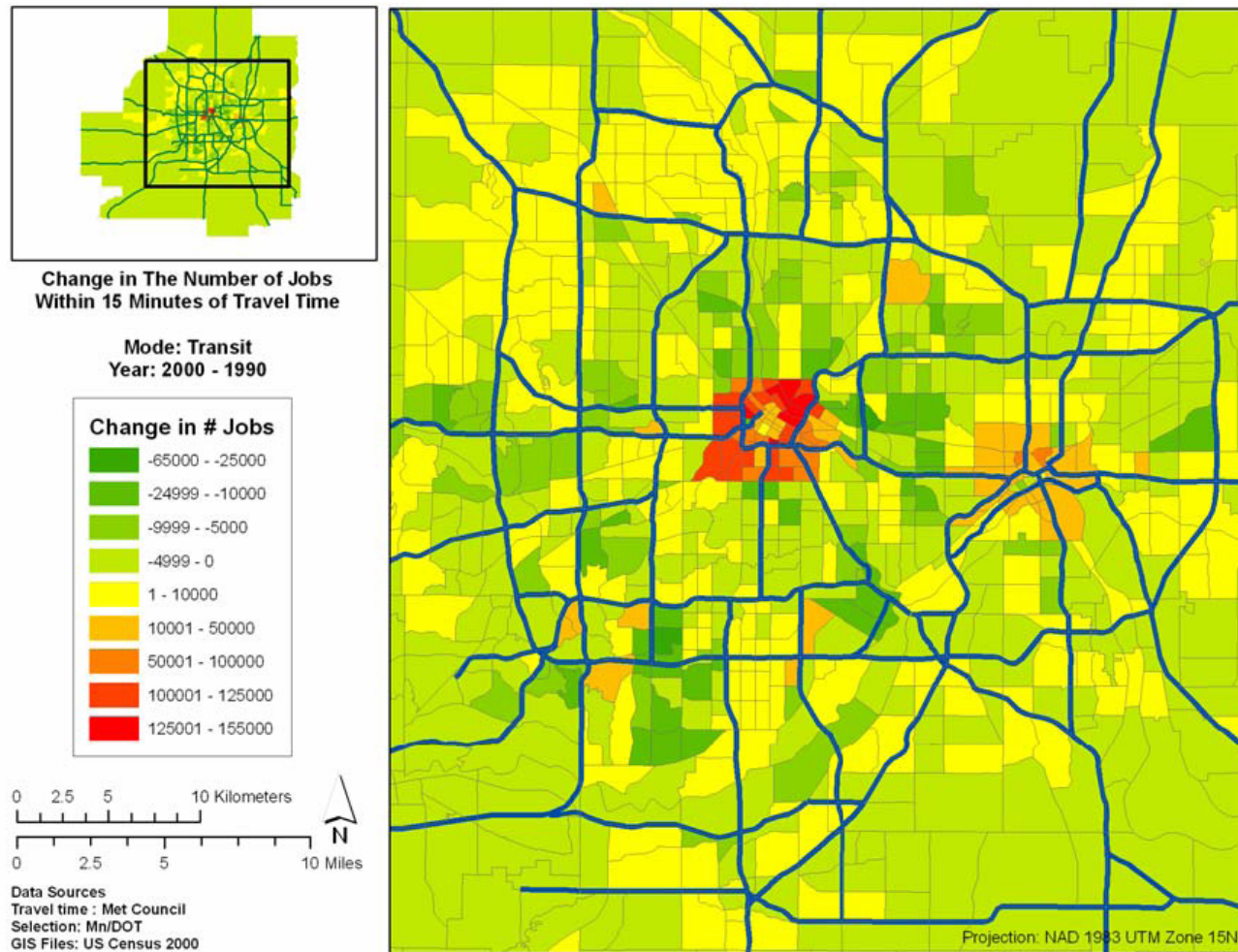
Average Cost of Auto Travel

“Cost” includes waiting time, out of pocket costs, and any other “costs” to the operator.

Rank this PM!

- ☐ Easily understood
- ☐ Requires effort
- ☐ Very difficult

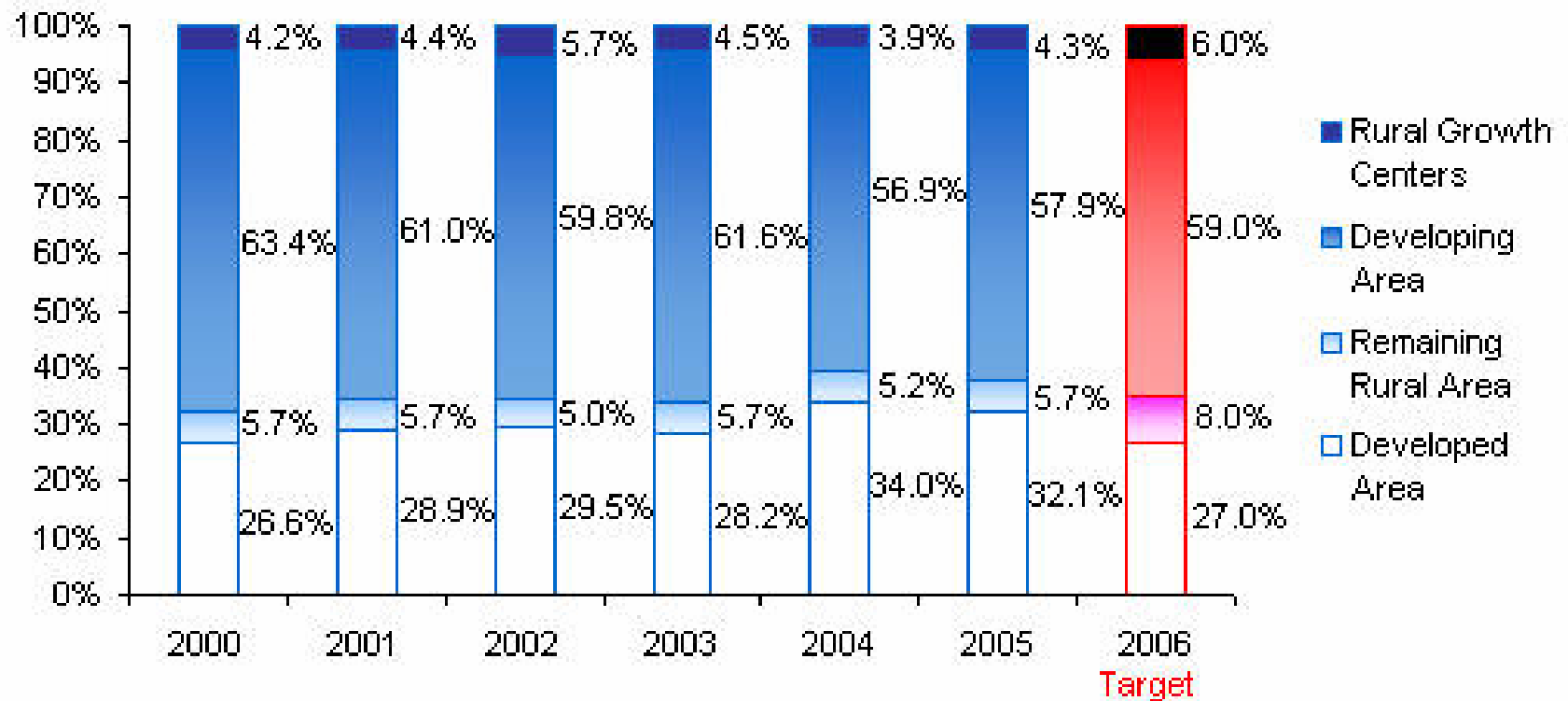
Quality of Travel Choices (UMinn/TCMC)



Source: El-Geneidy, A.M. and Levinson, D.M. Access to Destinations: Development of Accessibility Measures, Center for Transportation Studies, University of Minnesota, Mn/DOT 2006-16, <http://www.lrrb.org/PDF/200616.pdf>, pp. 44,45.

Growth Where Transport Options Exist (Twin Cities Metropolitan Council)

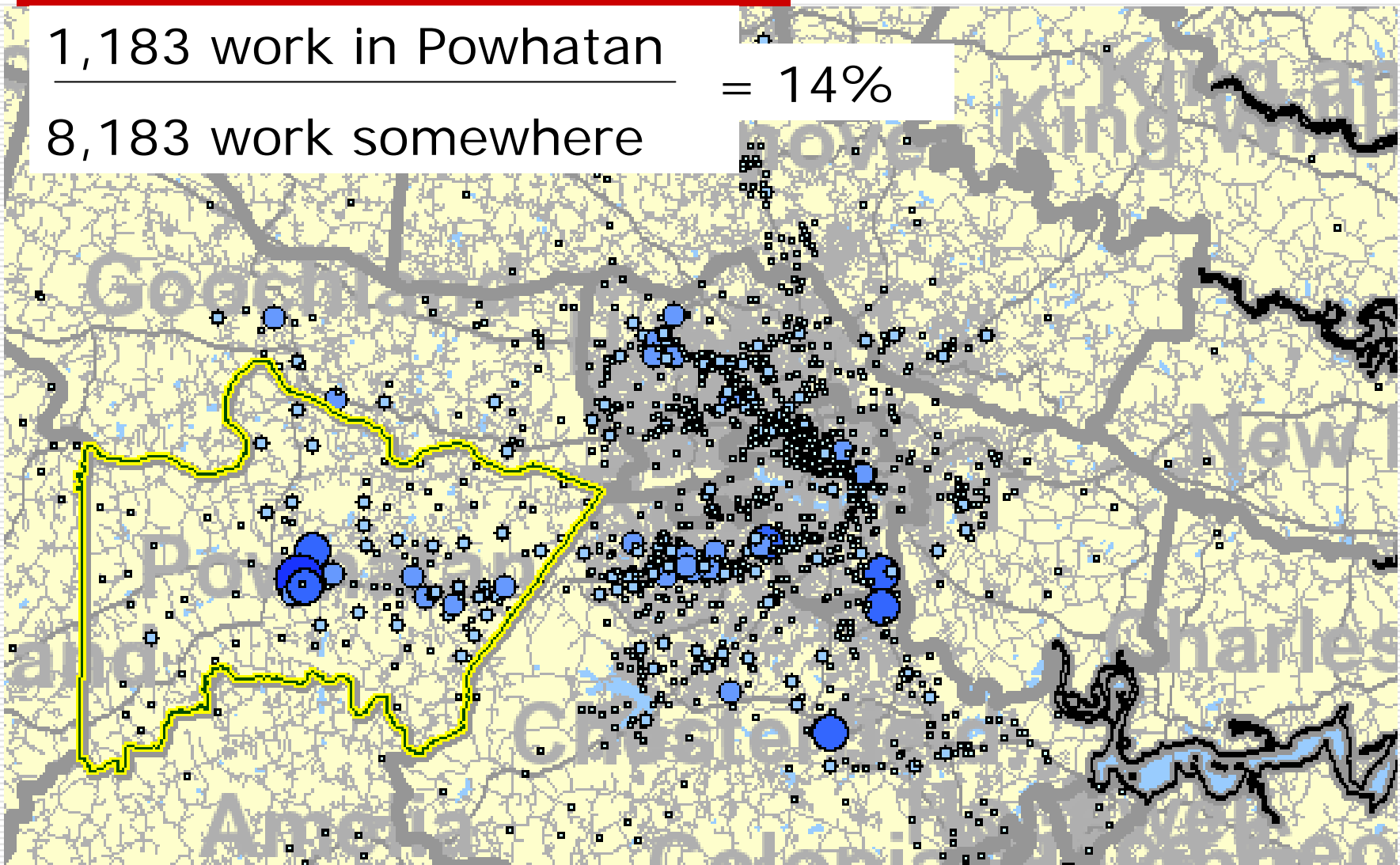
Percentage of housing units built by location



Source: Twin Cities Metropolitan Council. Department Results (Metropolitan Council), Minnesota Office of the Governor, 2006, <http://departmentresults.state.mn.us/met/index.html>.

Jobs/Housing Balance (VA)

1,183 work in Powhatan
8,183 work somewhere = 14%



Goal: Protect and Manage Corridors

- ❑ Found 4 PMs, 2 of which are
- ❑ Percent of local governments whose land use plans agree with state corridor plans
- ❑ Incompatible land use adjacent to public airports

Airport Land Use Compatibility (WA)

Airport Land Use Compatibility Technical Assistance Program Milestones

Number of Jurisdictions per Year with Milestone Achieved

	2003	2004	2005	Goals
Program Introduction Meeting/Workshop	5	1	6	20
Draft Comprehensive Plan Policies	6	3	10	15
Adopted Comprehensive Plan Policies	5	3	7	12
Draft Development Regulations	3	4	7	15
Adopted Development Regulations	3	4	4	10

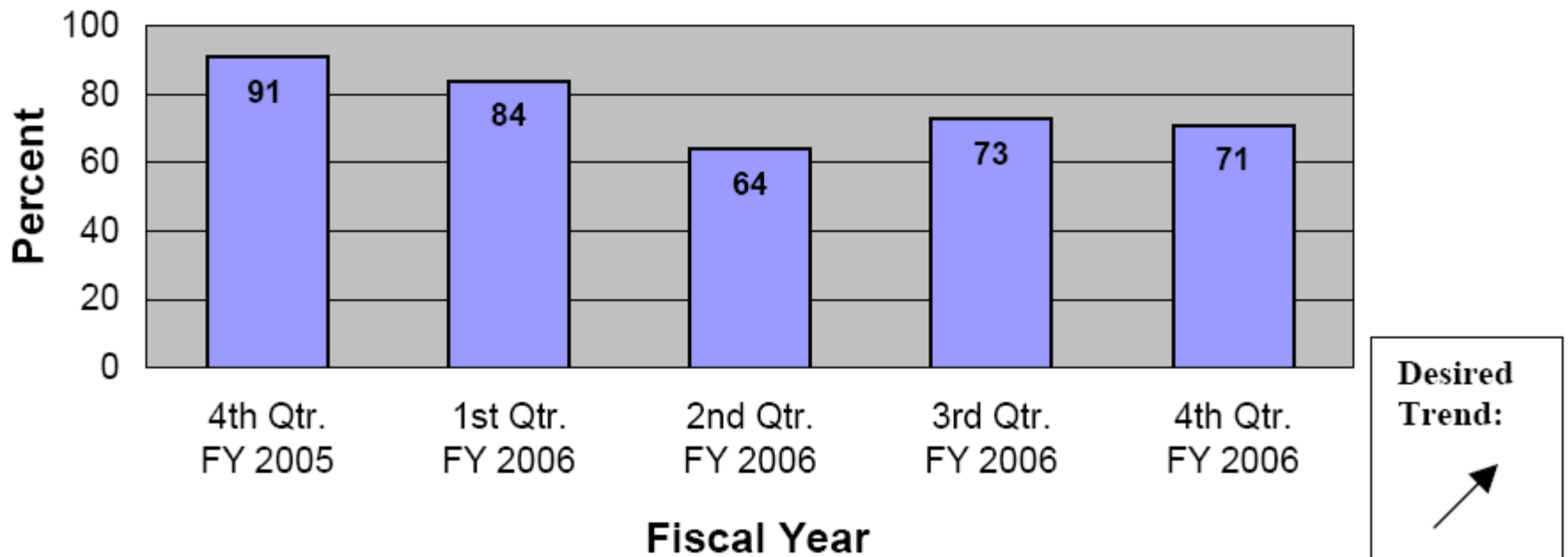
Source: *Washington State Gray Notebook*

Goal: Align State and Local Efforts

- ❑ Found 3 PMs, 2 of which are
- ❑ Number of locations where integrated transportation/land use studies are undertaken
- ❑ Satisfaction of coordinated customers

Satisfaction of Coordinated Customers (MO)

Percent of Positive Feedback Responses Received from Planning Partners Regarding Involvement in Transportation Decision-Making



Source: Missouri DOT, MODOT Tracker,
http://www.modot.mo.gov/about/general_info/Tracker.htm

Goal: Reduce Land Consumption

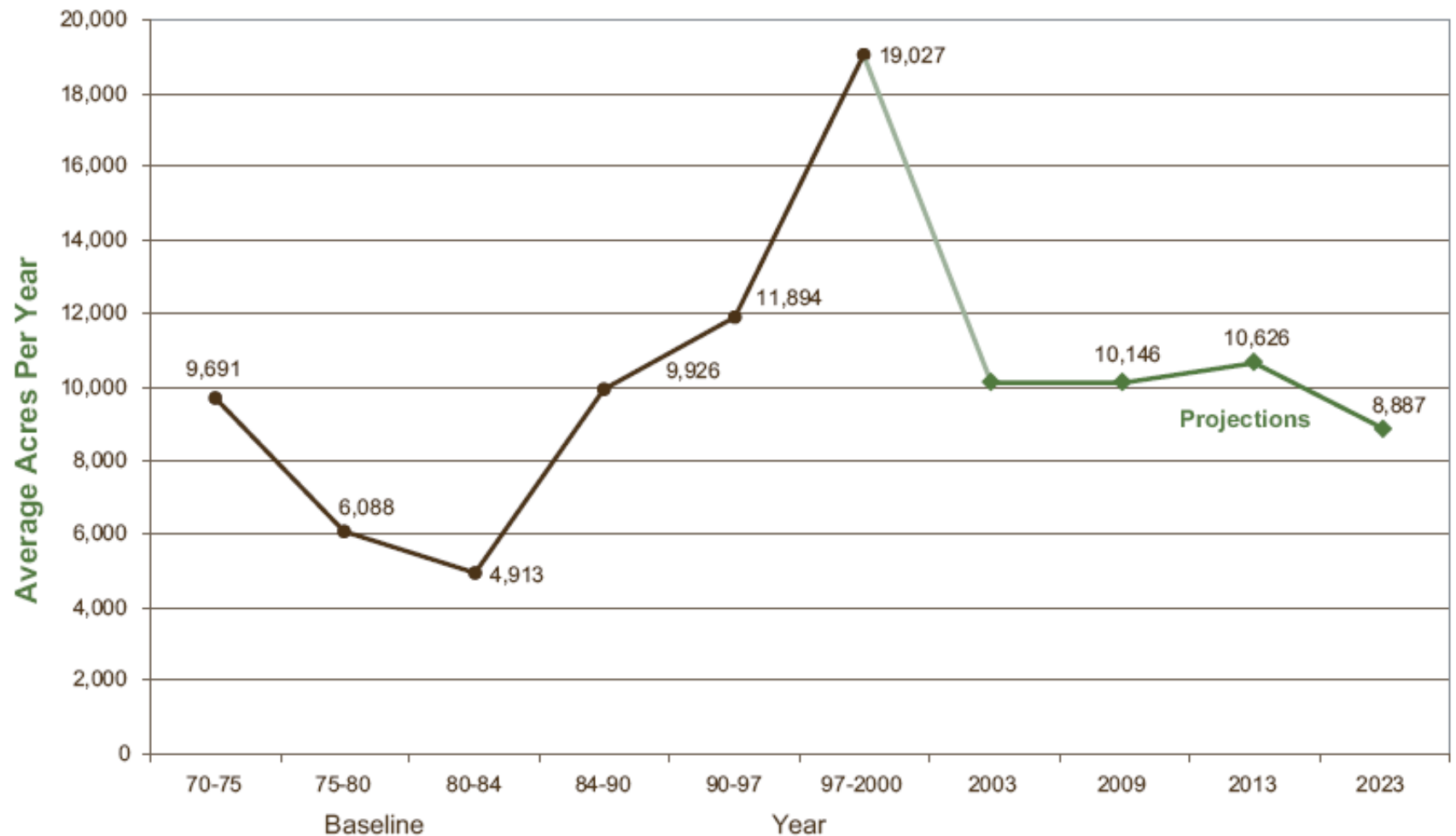
- ❑ Found 4 PMs, 2 of which are
- ❑ Population and employment in the Urban Centers
- ❑ Conversion of undeveloped land

Population and Employment in Urban Centers (NJTPA)

	1980	1990	2000
Percent of Jobs in Urban Centers		10%	9%
Percent of population in Urban Centers	15%	14%	13%

Source: NJTPA, Access and Mobility 2030, Appendix L, Regional Indicators Report,
http://njtpa.org/planning/rtp2030/rtp2030_documents/RTPappendices/AppL_RegIndic.pdf

Conversion of Undeveloped Land (Older PM from MN)



Source: Minnesota Department of Transportation. *2003 Statewide¹⁹ Transportation Plan.*

Respondents' Observations

☐ PMs must be understandable

Your
rankings

☐ PM should not be misleading

VMT vs.
Access

☐ Some definitions are specific to regions or localities

Corridor
protection

☐ PMs should be scalable

My Observations

- ❑ States may not explicitly measure transport and land use coordination.
- ❑ PMs may be driven by
 - Results (e.g., jobs within 15 minutes)
 - Actions (e.g., miles of protected corridor)
- ❑ PMs vary by policy and by time

Consider example of Utah's jurisdictions with current general plans

Thank you!

- ❑ The next page in your handout summarizes performance measures by state.
- ❑ A more detailed version of this information is shown as a separate packet.